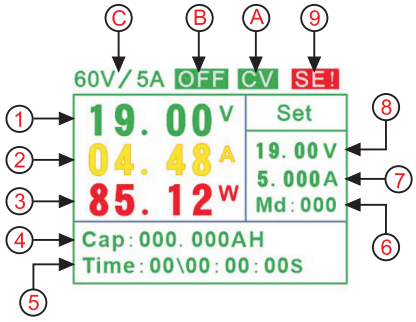
Introduction:

DPX6005 power supply is a full CNC programmable buck converter, small in size, high power, high efficiency and stable operation; 1.8-inch TFT color liquid crystal display, display data is comprehensive and clear; The module is controlled by an advanced microprocessor, which can accurately adjust and display the voltage and current. The setting parameters are convenient and fast, which is very suitable for debugging, maintenance and experimental power supply.

Parameters:

Input voltage range: 6V-62V
Adjustable output voltage range: 0-60V (input voltage should be greater than output voltage)
Adjustable output current: 0-5A
Input protection: reverse connection protection
Output protection: OVP (over voltage protection), OCP (over current protection), OPP (over power protection)
Output power: 0-300W
Output voltage setting resolution: 10mV
Output current setting resolution: 10mA
Output ripple: <100mVpp (input 48V, output 24V, 5A)
100Hz wave transmission ratio: <1/10000
Typical efficiency: 90% (input 50V, output 30V, 3A)
Voltage, current display precision: 10mV, 10mA
Voltage display error: ±1%+20mV
Current display error: ±2%+20mA
Response time: <50ms
Data store: M0-M9, total 10 groups data store
Heat dissipation method: onboard heatsink and cooling fan
Cooling fan turns on condition: output current greater than 1.5A or output power greater than 40W
Operating environment temperature: 0~60℃
Store environment temperature: -20~70℃
Dimension (L x W x H): 135x95x38mm

Display Instruction:

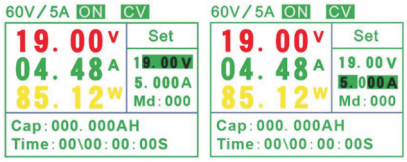


1	Actual output voltage value	7	Setting current value
2	Actual output current value	8	Setting voltage value
3	Actual output power value	9	Save the callout status
4	Real-time cumulative amp hour value	A	Power supply output status
5	Running time	B	ON/OFF status
6	Save and callout address bits	C	Model

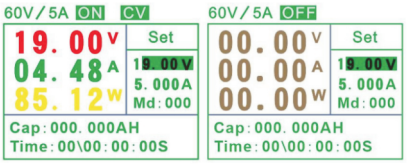
Using Instruction:

1. Wring
There are clear positive and negative marks on the input interface (IN), and the output interface (OUT), please connect as instruction.

2. Set output voltage and current value
Press the "**Set**" button to switch to set output voltage value or current value, press the "<" or ">" button to set stepping value of the parameter, adjust the coding knob to change the output voltage or current value.

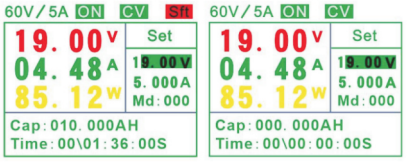


3. Turn on and turn off the output
After setting the voltage value and current value, you can directly press the "**OUT**" button to turn the output on or off, and ON/OFF status position will display "ON" or "OFF", as shown in the figure below, the display of the power output is turned on (picture 1) and turned off (picture 2).

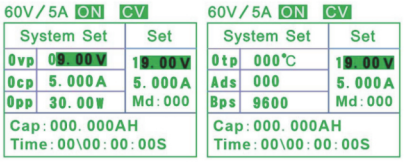


Picture 1 Picture 2

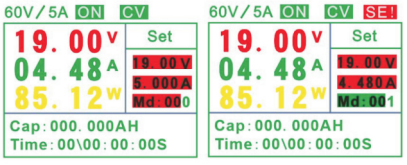
4. Clear the cumulative amp hour value and running time value
Press the "**Shift**" button first, then press the "<" button to clear the cumulative AH value and running time value.



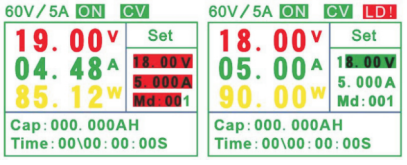
5. Set parameters
First press the "**Shift**" button, then press the "**Set**" button to enter or exit the system parameter settings interface, press "**Set**" button to switch setting parameters (OVP, OCP, OPP), parameter setting method is the same as changing output voltage and current value. If the system output value is greater than the setting value, the power will automatically disconnect the output, and the reason for disconnection is displayed in the status item. When the setting parameter value is 0, the protection is not turned on.



6. Parameters save
Press the "**M\L**" button to enter the parameter save, adjust the coding knob to change the parameter save address bit (0-9); Then press the "<" button to save the present setting voltage and current value to the currently setting address bit; press "**M\L**" button to exit parameter save interface.



7. Parameter callout
Press the "**M\L**" button to enter the parameter callout function interface, adjust the coding knob to change the address bit (0-9); press the ">" key can directly output the voltage and current value of the currently selected address bit.



Note:

1. Please don't use the converter out of the voltage and current range, otherwise the meter will be damaged.
2. The positive and negative poles cannot be reversed, and the reverse connection may damage the instrument.
3. Its working temperature range is -10 ~ 50℃, storage temperature range is -20 ~ 70℃, and please make sure the instrument is in a dry environment.
4. Do not move the instrument vigorously while the instrument is working properly to avoid irreparable damage to the internal circuits.